

Genesis Ultra TLD-BP™ Dosimeter

Thermoluminescent
Dosimeter



Enables Neutron Radiation

In addition to beta and gamma X-ray radiation, the Genesis Ultra TLD-BP dosimeter also measures neutron.

Special Design & Packaging

With a lightweight, two-part design, customers can enjoy decreased processing time and reduced shipping costs.



Recyclable Materials

While protecting the dosimeter's internal components, the plastic blister pack is made from 99% recyclable materials—also helping to reduce the world's carbon footprint.

Additional Features & Benefits

- Unique element correction factors that allow deep, lens-of-eye and shallow doses reporting
- Minimum reportable dose (MRD) as low as 1 mrem (0.01 mSv) is available — compared to the 10 mrem (0.10 mSv) MRD of other TLD products
- Unique serial number for identification and tracking
- Sealed plastic blister pack improves protection of internal parts

Specifications

Description: 4 element TLD

(3 ⁷LiF:Mg, Cu, P [TLD700H] and 1 ⁶LiF:Mg, Cu, P [TLD600H])

Badge Type: 36 = Genesis Ultra TLD-BP

Holder Type: BP

Accreditations: NVLAP (Code: 100555-0)

Minimum Reportable Dose: 1 mrem (0.01 mSv)

Useful Dose Range: 1 mrem - 1000 rad (0.01 mSv - 10 Gy)

Energy Response:

- Photon 5 keV - 6 MeV
- Beta 0.251 MeV - 5 MeV
- Neutron (TLD): Thermal - 6 MeV

Blister Pack

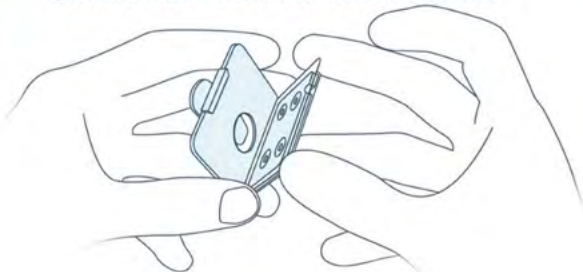


Holder

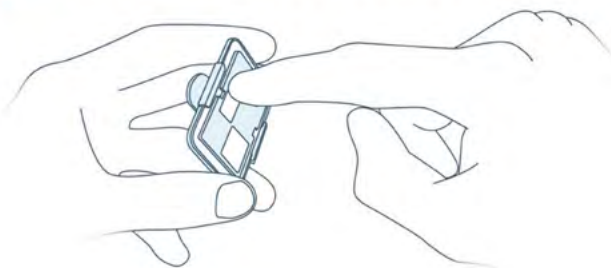


Assembly Insert new blister pack for next wear period.

- 1 Place the lower part of the clear plastic Blister Pack into the black holder.



- 2 Press the top of the Blister Pack towards the holder until it snaps into place.

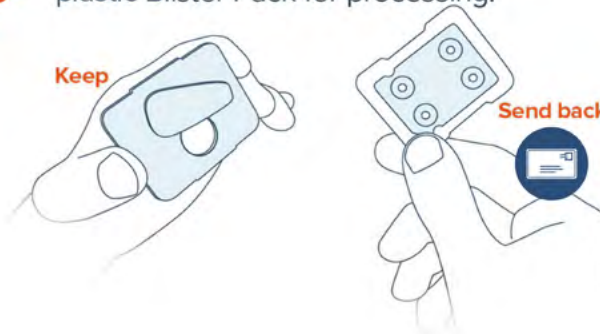


Disassembly Remove old Blister Pack (end of wear period) for processing.

- 1 Remove the Blister Pack by turning the clip (on the back of the holder) to expose the hole then pressing through with your finger.



- 2 **Keep the black holder** and return the plastic Blister Pack for processing.



***WARNING:** Piercing, opening, tearing, or cutting the blister pack may cause permanent damage to the internal components of your dosimeter—rendering it unable to accurately and effectively measure dose. Damaged Blister Packs may incur a damage fee.

TLD dosimeters must be mailed back to Mirion Dosimetry Service's accredited lab for processing at the end of every wear period where the captured dose can be extracted, analyzed, calculated, and electronically stored in each wearer's legal dose-of-record